

**ABSTRACT OF THE DISCLOSURE**

A logic gate includes a low noise current source coupled between a first terminal of a voltage supply and an output terminal. The low noise current source is capable of delivering a preselected voltage signal to the output terminal having a magnitude responsive to a first control signal relatively independent of the magnitude of the voltage on said first terminal of said voltage supply. At least one switching element is coupled between the output terminal and a second terminal of the voltage supply. The switching element is capable of coupling the output terminal to the second terminal of the voltage supply in response to receiving a second control signal.